

CLAIMS

What is claimed is:

1. A device comprising:

5 an encoder configured to receive a speech sample and generate an encoded voice packet from said speech sample, said encoded voice packet having a packet size and a plurality of bytes;

an encryption unit configured to receive a voice block and generate an encrypted voice block, said voice block having a block size, wherein said packet size is not divisible by
10 said block size and yields a remainder; and

a packet block manager configured to divide said encoded voice packet into a plurality of said voice blocks and provide said plurality of said voice blocks to said encryption unit, said packet block manager further configured to create a remainder voice block including remainder bytes of said encoded voice packet and additional bytes from said
15 encrypted voice block and provide said remainder voice block to said encryption unit.

2. The device of claim 1, wherein said packet block manager applies a mask to said encrypted voice packet for determining said additional bytes.

20 3. The device of claim 1, wherein said packet block manager executes one of a recursive sliding block method algorithm and a recursive overlapping block method algorithm for determining said additional bytes.

4. The device of claim 1, wherein said encoder is a G.711 encoder.
5. The device of claim 1, wherein said encryption unit employs Advanced Encryption Standard encryption.

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6. A method comprising the steps of:
 - generating an encoded voice packet from a speech sample, said encoded voice packet having a packet size and a plurality of bytes;
 - creating an encrypted voice block from a voice block, said voice block having a block size, wherein said packet size is not divisible by said block size and yields a remainder;
 - dividing said encoded voice packet into a plurality of said voice blocks;
 - providing said plurality of said voice blocks to said encryption unit;
 - creating a remainder voice block including remainder bytes of said encoded voice packet and additional bytes from said encrypted voice block; and

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providing said remainder voice block to said encryption unit.

7. The method of claim 6 further comprising the step of applying a mask to said encrypted voice packet for determining said additional bytes.

- 20 8. The method of claim 6 further comprising the step of executing one of a recursive sliding block method algorithm and a recursive overlapping block method algorithm for determining said additional bytes.

9. The method of claim 6, wherein said step of generating said encoded voice packet uses a G.711 encoder.

10. The method of claim 6, wherein said step of creating said encrypted voice block
5 employs Advanced Encryption Standard encryption.

11. A computer software product comprising:

code for generating an encoded voice packet from a speech sample, said encoded voice packet having a packet size and a plurality of bytes;

10 code for creating an encrypted voice block from a voice block, said voice block having a block size, wherein said packet size is not divisible by said block size and yields a remainder;

code for dividing said encoded voice packet into a plurality of said voice blocks;

code for providing said plurality of said voice blocks to said encryption unit;

15 code for creating a remainder voice block including remainder bytes of said encoded voice packet and additional bytes from said encrypted voice block; and

code for providing said remainder voice block to said encryption unit.

12. The computer software product of claim 11 further comprising code for applying a
20 mask to said encrypted voice packet for determining said additional bytes.

13. The computer software product of claim 11 further comprising code for executing one of a recursive sliding block method algorithm and a recursive overlapping block method algorithm for determining said additional bytes.

14. The computer software product of claim 11, wherein said code for generating said encoded voice packet uses a G.711 encoder.
- 5 15. The computer software product of claim 11, wherein said code for creating said encrypted voice block employs Advanced Encryption Standard encryption.